

OLD Engineering Services Industry Forum

**I-16 Widening From I-95 to I-516
(PI 0012757)**

**I-16 @ I-95 Interchange
Reconstruction (PI 0012758)**

**I-16 @ SR 307 / Dean Forest Road
Diverging Diamond Interchange
(PI 0013727)**

July 10, 2017



Disclaimer Statement

At this meeting the Department will provide information about the project's delivery goals, anticipated scope, anticipated Design-Build procurement process, and potential risks. Participants will be encouraged to ask questions during this meeting; however, **any information provided by the Department shall be considered as informational only and is subject to change.**

Today's Agenda

1. Innovative Delivery and MMIP Overview – Darryl VanMeter
2. I-16/95 Corridor Project Overview – Andrew Hoenig
 - I-16 Widening (From I-95 to I-516)
 - I-16 @ I-95 Interchange Reconstruction
 - I-16 @ SR 307 / Dean Forest Road Diverging Diamond
3. GEC Procurement – Darryl VanMeter
 - GEC Roles
 - Disadvantaged Business Enterprise (DBE)
 - Opportunity Conflicts
4. Open Discussion - All

Innovative Delivery and Major Mobility Investment Program

Darryl D. VanMeter, P.E.

Assistant P3 Division Director / State Innovative Delivery Administrator

Innovative Delivery Statewide

Current P3 projects:

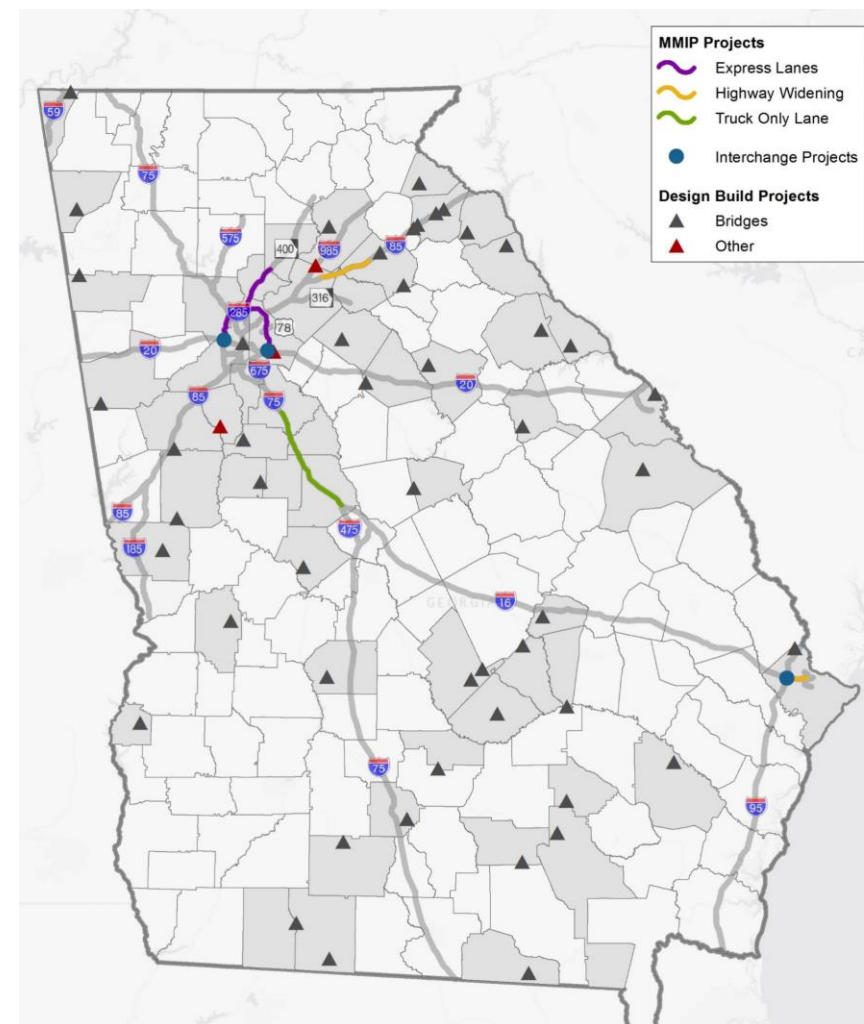
- Northwest Corridor
- 285/400 Interchange

Existing DB projects:

- I-85 Express Lanes extension
- 53 statewide bridge replacement projects
- \$2B in construction

11 MMIP projects

- \$11 Billion
- All in construction by 2026



Innovative Delivery Successes



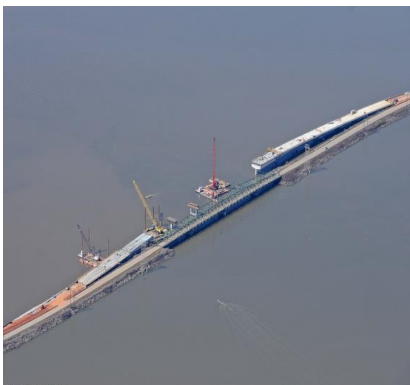
*I-75 – Northwest Corridor
Express Lanes*



*I-85 Express Lanes
Extension*



I-285/SR 400 Interchange



*SR 47 at Little River
Bridge Replacement*



*I-75 South Metro Express
Lanes*



Freight Weigh in Motion Projects

11 MMIP Projects



**3 Major
Interchange
Projects**



**4 Major Express
Lanes Projects**

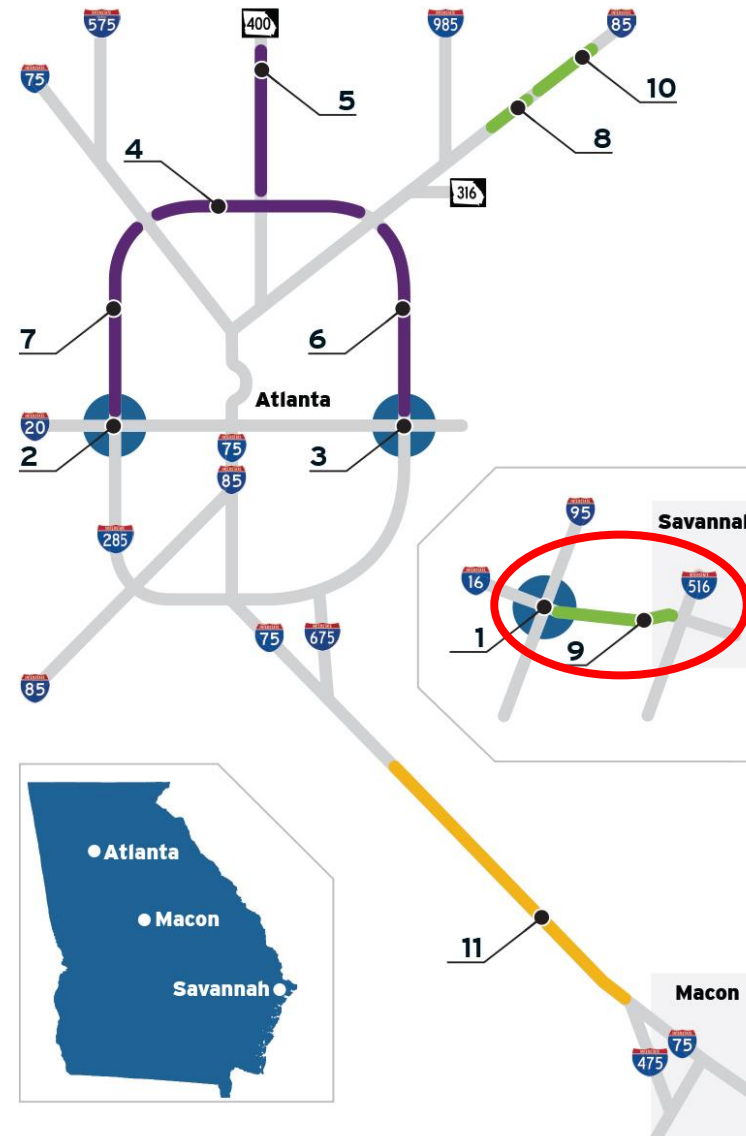


**3 Major Interstate
Widening Projects**



**1 Commercial
Vehicle Lanes
Project**

MMIP Projects Map



Interchange Reconstruction:

1. I-16/I-95 Interchange
2. I-285/I-20 West Interchange
3. I-285/I-20 East Interchange

Express Lanes:

4. Revive 285 Express Lanes I-75 to I-85
5. SR 400 Express Lanes: I-285 to McFarland Rd.
6. I-285 East Wall Express Lanes I-85 to I-20
7. I-285 West Wall Express Lanes I-20 to I-75

Interstate Widening:

8. I-85 North Widening Hamilton Mill Rd. to SR 211
9. I-16 Widening I-95 to I-516
10. I-85 North Widening SR 211 to US 129

Commercial Vehicle Lanes:

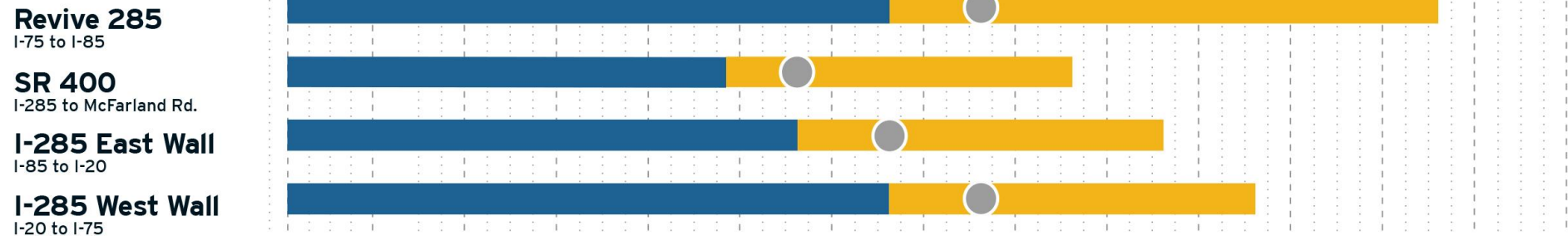
11. Commercial Vehicle Lanes SR 155 to I-475

MMIP Schedule

Interchange Reconstruction:



Express Lanes:



Interstate Widening:



Commercial Vehicle Lanes:



06/16/2017 | Dates represented are calendar years



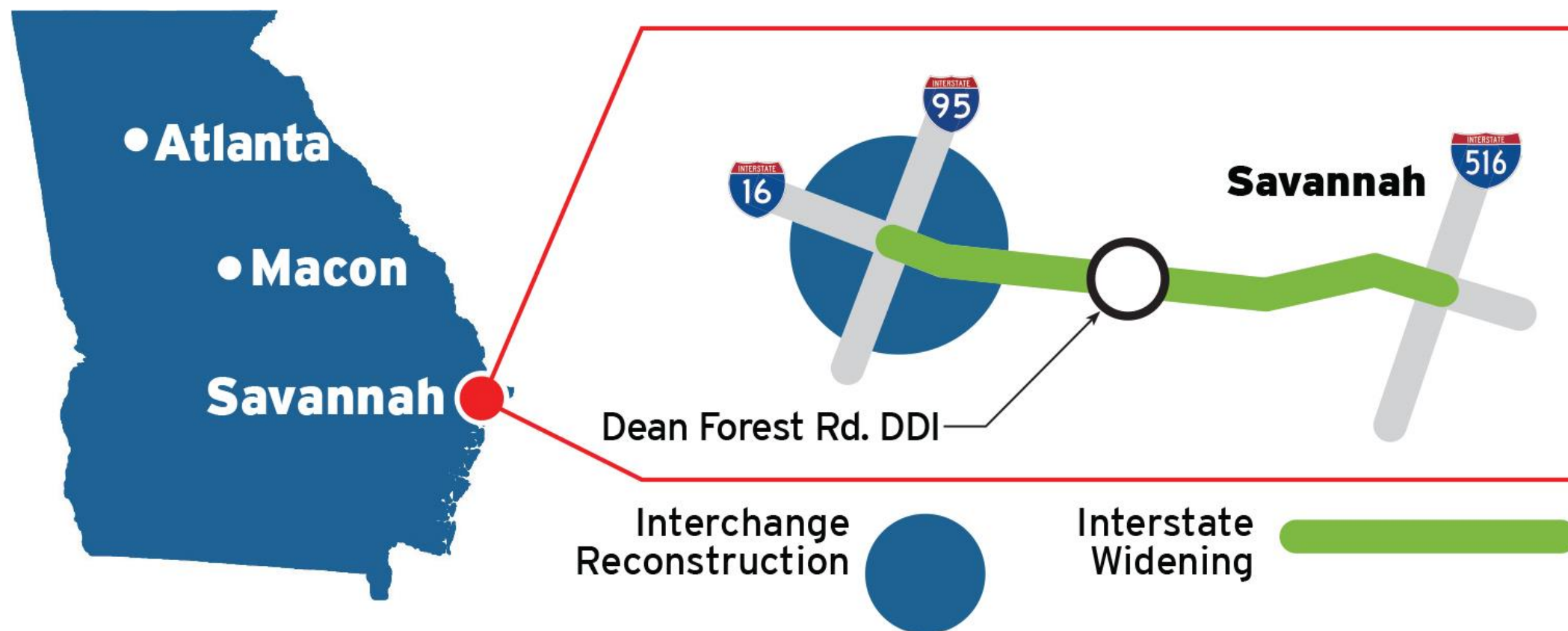
The Design-Build process compresses project schedules by overlapping activities in the design and construction phases.

Projects Overview

Andrew Hoenig, P.E.

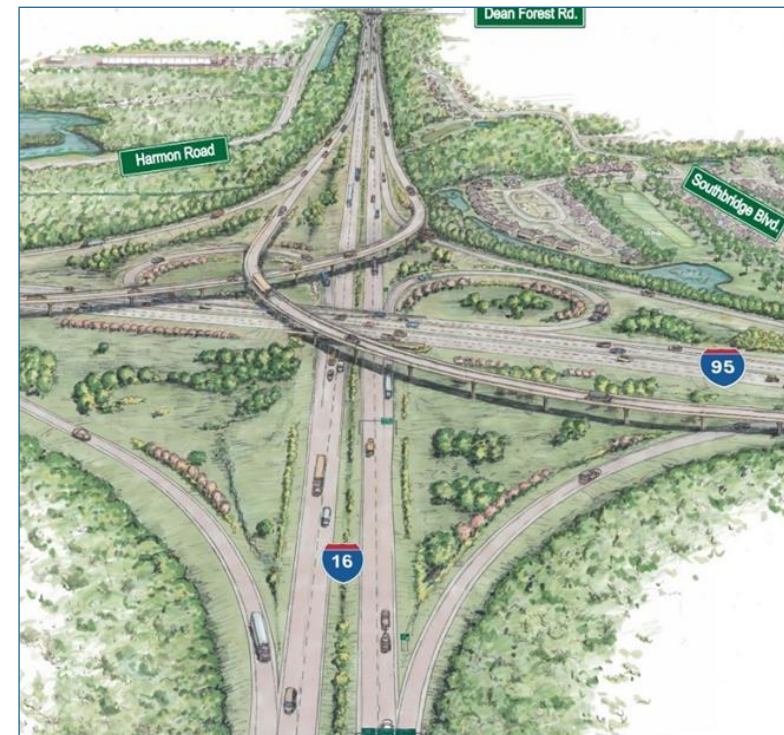
Senior Design-Build Project Manager

Projects Location



Projects Overview

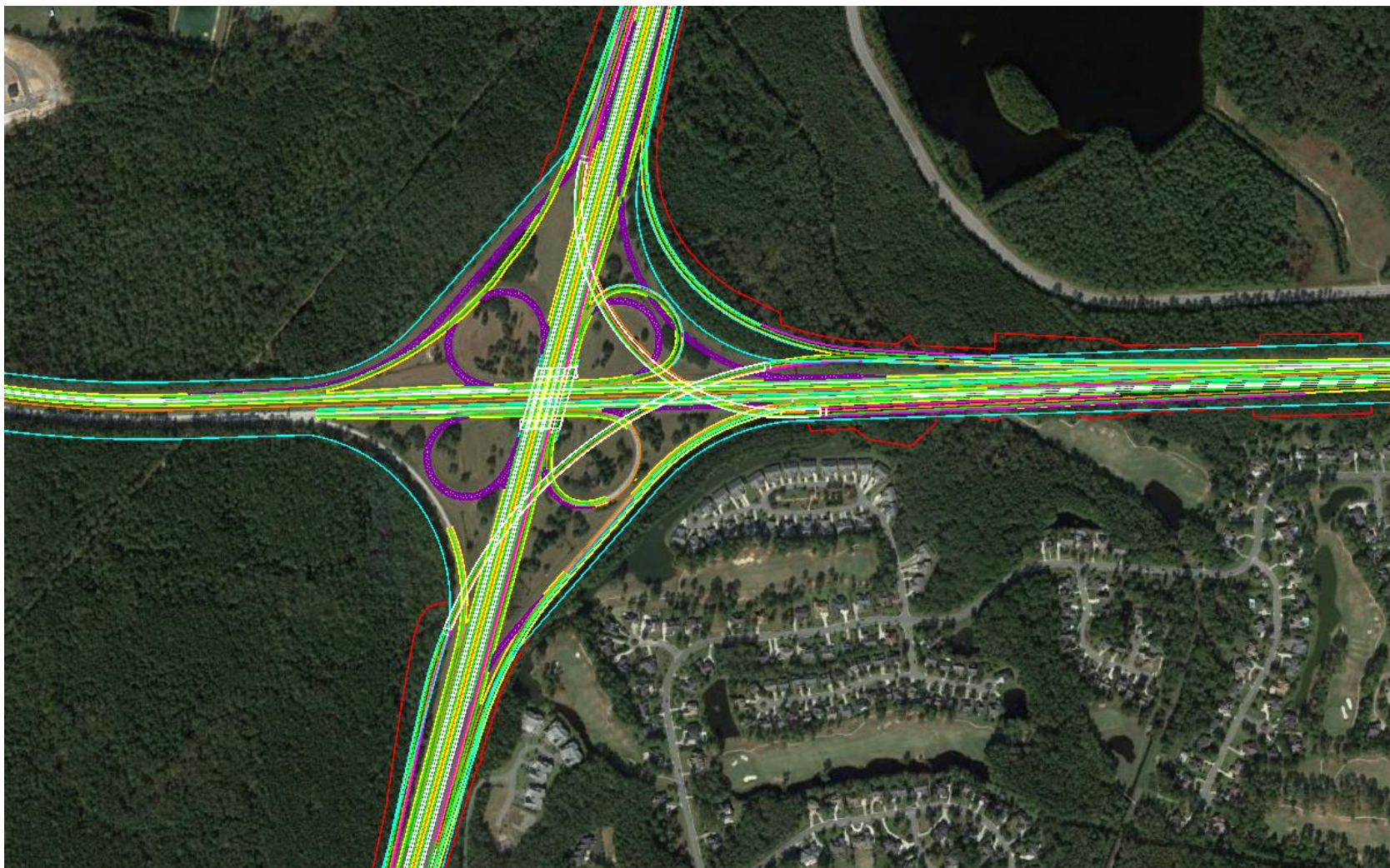
- Design-Build delivery
- SRTA partnership allows for multi-year contracting
- Goals:
 - Improve traffic flow and safety at the busy I-16/I-95 interchange
 - Widen I-16 from 4-6 lanes from I-95 to I-516 to ease congestion
 - Reconstruct Dean Forest Road interchange
- Estimated Total Programmatic Cost: \$350M



I-16 @ I-95 Interchange Reconstruction

- Reconstruct the existing I-16 at I-95 interchange in Chatham County, at the gateway to Savannah
- Proposed improvements include:
 - Replacement of two loop ramps with flyover bridges:
 - I-95 Southbound to I-16 Eastbound
 - I-16 Westbound to I-95 Southbound
 - Construction of a collector-distributor (CD) lane on I-95 northbound to separate the vehicles exiting and entering from I-16
 - New interchange lighting
 - Intelligent Transportation System (ITS) technology to link to Georgia NaviGator

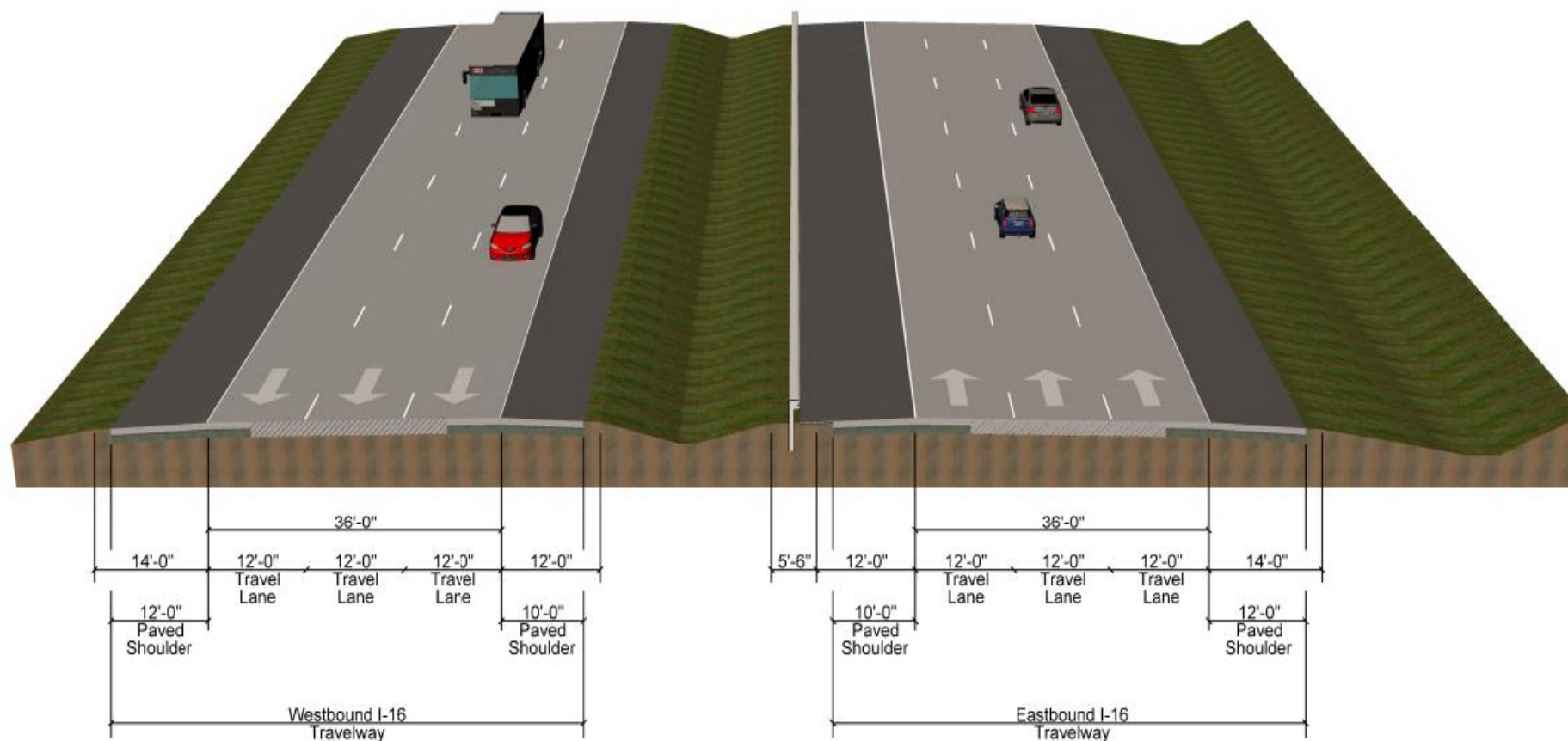
I-16 @ I-95 Interchange



I-16 Widening Project

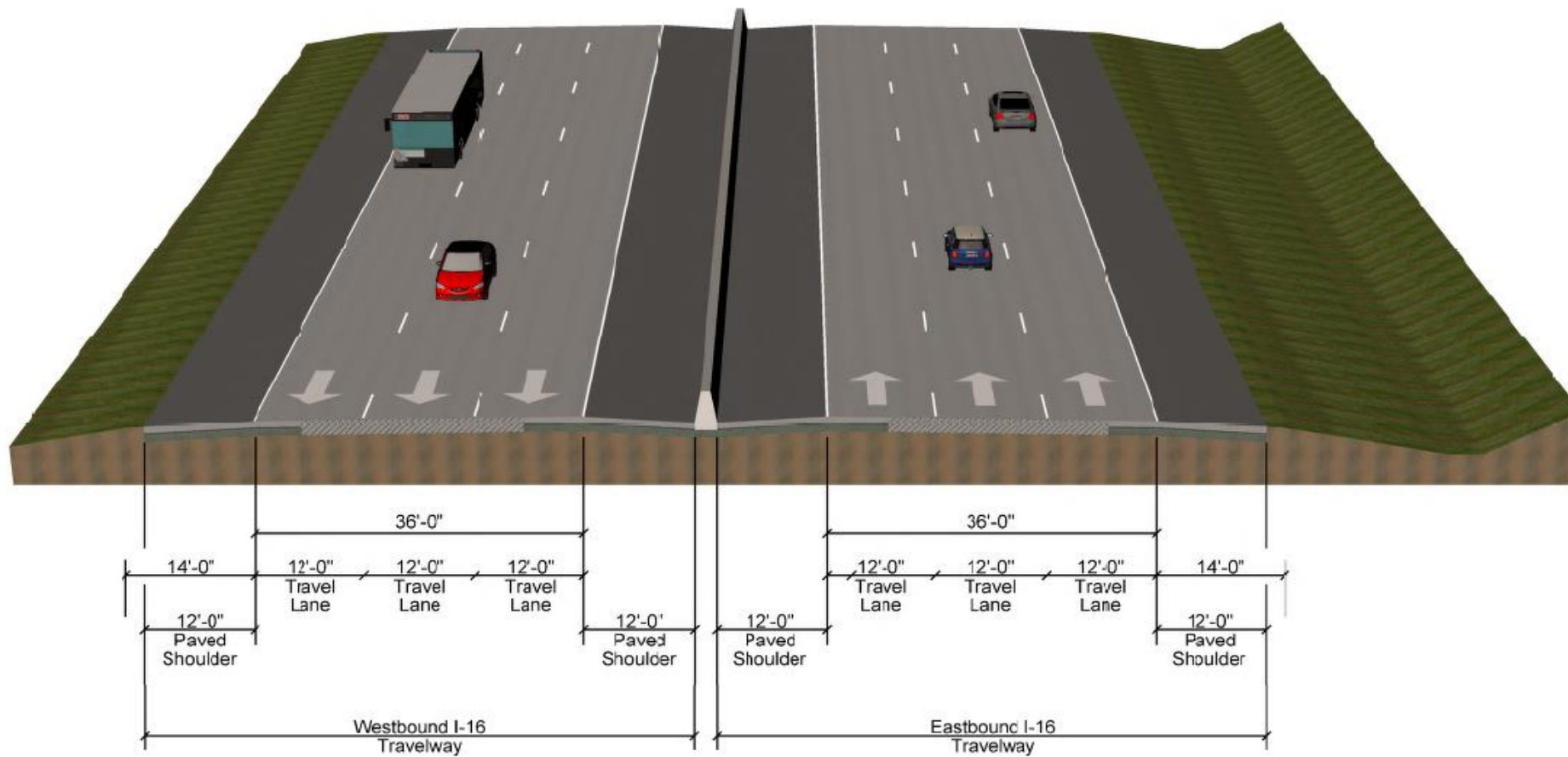
- Widen I-16 from 4-6 lanes from I-95 to I-516
 - Add one additional general-purpose lane in each direction
 - Construct the new lanes by widening to the existing inside, grassed median
 - Additional scope includes:
 - Reconstruction of 5 bridges
 - Roadway drainage improvements
 - Intelligent Transportation System (ITS) technology to link to Georgia NaviGator

I-16 Widening Typical Section



I-16
LOOKING EAST
FROM JUST EAST OF I-95 TO SR 307 (DEAN FOREST)

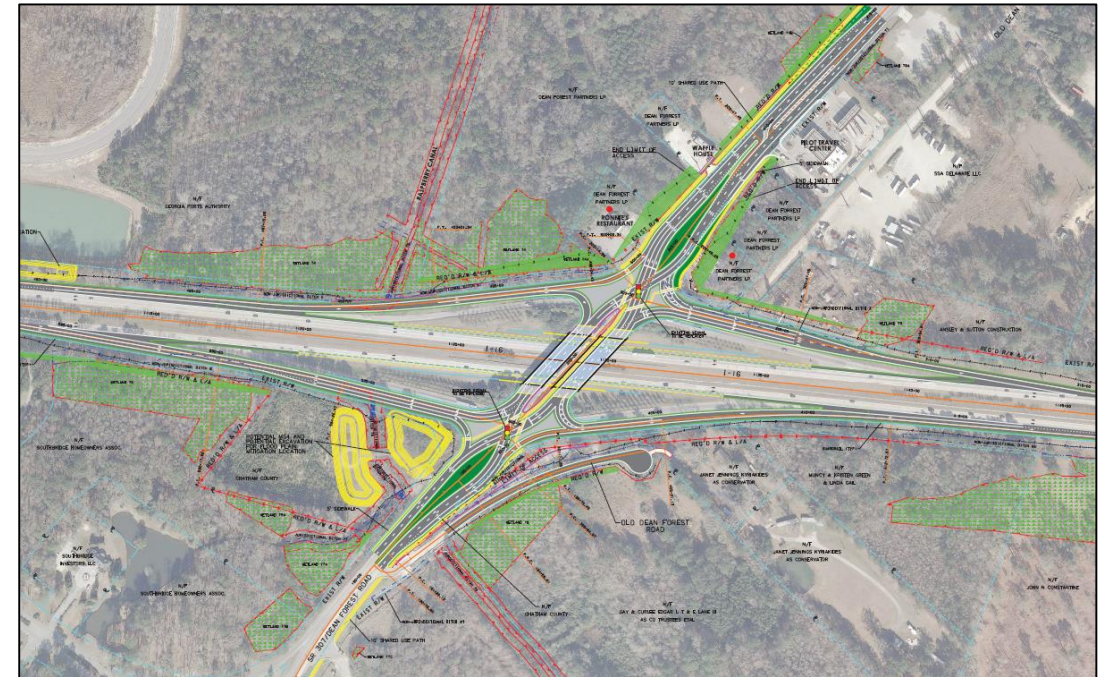
I-16 Widening Typical Section



I-16
LOOKING EAST
FROM SR 307 (DEAN FOREST) TO JUST WEST OF I-516

Dean Forest Road Interchange

- Replace existing bridge with a split bridge design (two bridges, each with three lanes)
- Potential for diverging diamond interchange (DDI) design
- Construct a shared-use trail, adding an additional bridge width on one of the bridges



Projects Schedule

I-16/I-95 INTER. & WIDENING	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ENVIRONMENTAL														
RIGHT OF WAY														
DESIGN/BUILD PROCUREMENT														
FINAL DESIGN														
CONSTRUCTION SUMMARY														

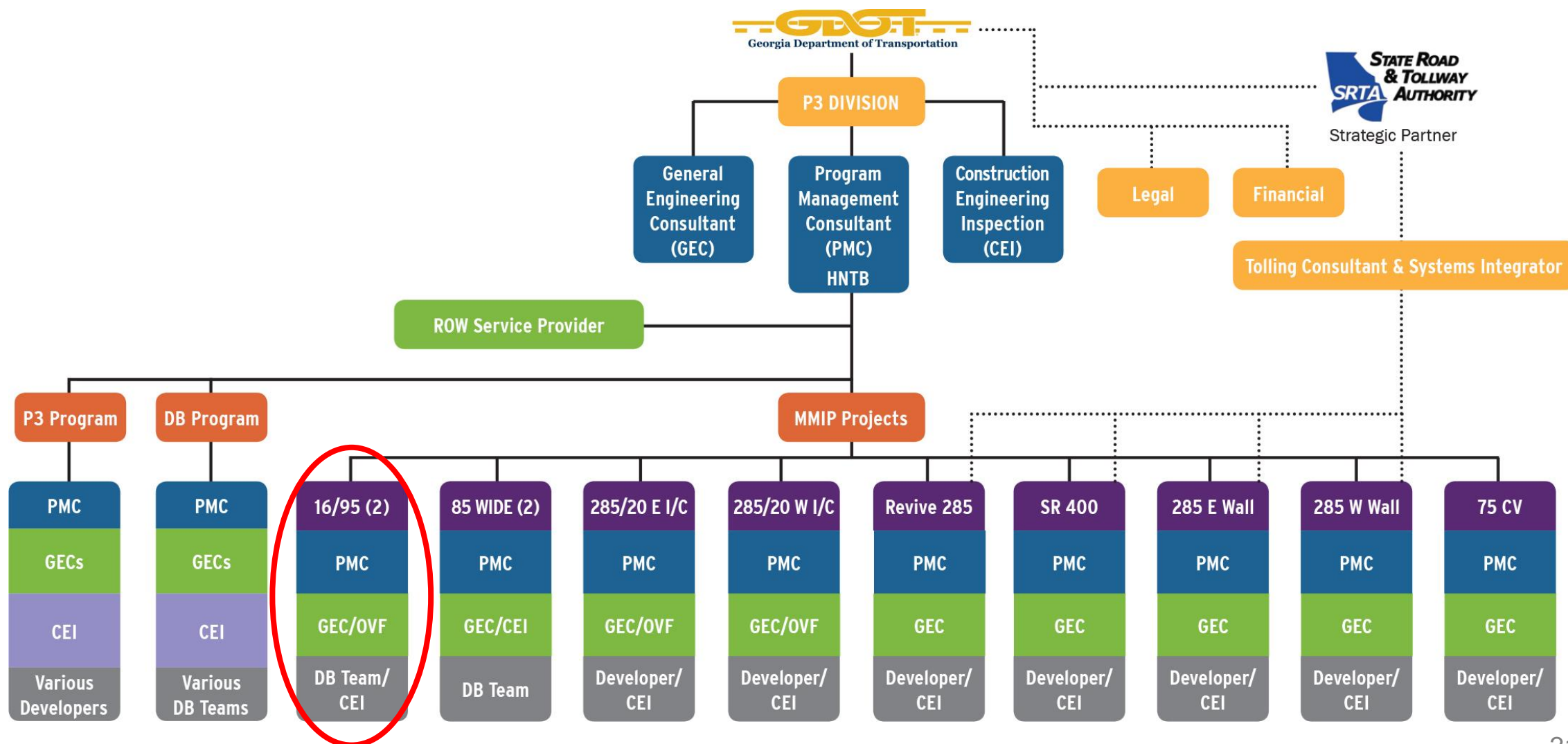


GEC Procurement Overview

Darryl VanMeter, P.E.

Assistant P3 Division Director / State Innovative Delivery Administrator

Program Delivery Model- PMC & GECs



MMIP Consultant Opportunities

	Public Notice Advertisement (PNA)	Request for Qualifications (RFQ)	Awarded
Innovative Delivery			
Program Management Consultant (PMC)	✓	✓	✓
Programmatic General Engineering Consultant (GEC)	✓	✓	✓
Programmatic Construction Engineering & Inspection (CEI)	✓	✓	Fall 2017
Right-of-Way Service Provider	October 2017	November 2017	Spring 2018
Major Mobility Investment Program			
I-85 Widening	✓	✓	✓
SR 400 Express Lanes	✓	✓	Summer 2017
I-285 East Wall Express Lanes	✓	✓	Summer 2017
I-285/I-20 East Interchange	✓	✓	Summer 2017
■ 16/95 Interchange and Widening	✓	July 2017	Winter 2017
I-285 West Wall Express Lanes	November 2017	January 2018	Spring 2018
I-285/I-20 West Interchange	November 2017	January 2018	Spring 2018
I-75 Commercial Vehicle Lanes	November 2017	January 2018	Spring 2018
Revive 285	Summer 2021	Summer 2021	Spring 2022

GEC Roles & Responsibilities

Pre-Let – Underway by Arcadis

- Traffic Studies & Analyses
- Concept
- Survey Database
- Environmental/Public Involvement
- Costing Plans
- Estimating
- Drainage studies
- Procurement Support – Technical

Post-Let

- Submittal Reviews
- Right-of-Way Reviews
- Utilities
- Environmental Re-Evaluation
 - Permit Reviews
- Owner's Verification Firm (OVF)
- Schedule Reviews
- Technical Validation
- Co-location

Area Class for Prime Engineer

The **Prime Consultant** MUST be prequalified by GDOT in the area class listed below:

Number

Area Class

3.05

Multi-lane Urban Interstate Limited Access Design

Anticipated Area Classes for Subconsultants

1.06(a)	NEPA	3.01	Two-Lane or Multi-Lane Rural Roadway Design	3.13	Bicycle and Pedestrian Facility Design	6.01(b)	Geological and Geophysical Studies
1.06(b)	History	3.02	Two-Lane or Multi-lane Urban Roadway Design	3.15	Highway Lighting	6.02	Bridge Foundation Studies
1.06(c)	Air Quality	3.03	Multi-Lane Urban Roadway Widening and Reconstruction	4.01(a or b)	Minor Bridge and Miscellaneous Highway Structure	6.03	Hydraulic and Hydrologic Studies (Soils and Foundation)
1.06(d)	Noise	3.04	Multi-lane Rural Interstate Limited Access Design	4.02	Major Bridge Design	6.04(a)	Laboratory Materials Testing
1.06(e)	Ecology	3.05	Multi-lane Urban Interstate Limited Access Design	4.04	Hydraulic and Hydrological Studies (Bridges)	6.04(b)	Field Testing of Roadway Construction Materials
1.06(f)	Archaeology	3.06	Traffic Operations Studies	5.01	Land Surveying	6.05	Hazardous Waste Site Assessment Studies
1.06(g)	Freshwater Aquatic Surveys	3.07	Traffic Operations Design	5.02	Engineering Surveying	8.01	Construction Engineering and Supervision
1.07	Attitude Opinion, and Community Value Studies (Public Involvement)	3.09	Traffic Control Systems Analysis, Design and Implementation	5.03	Geodetic Surveying	9.01	Erosion, Sedimentation, and Pollution Control and Plan Preparation
1.09	Location Studies	3.10	Utility Coordination	5.08	Subsurface Utility Engineering	9.03	Field Inspections for Compliance of Erosion and Sedimentation Control Device Installation
1.10	Traffic Analysis	3.12	Hydraulic and Hydrological Studies (Roadway)	6.01(a)	Soil Survey Studies		

GEC Key Team Leads

Post-Let Services

1. Roadway Lead
2. Structural Lead
3. Environmental Lead
4. Estimating Lead
5. Utilities Lead
6. Survey Lead
7. Geotechnical Lead
8. Traffic Operations Lead

9. Project Controls Lead

10. Construction Lead

11. OVF Team

- Project Resident Engineer
- Assistant Project Resident Engineer
- Roadway Project Engineer
- Bridge Project Engineer

DBE Goal and Mentoring Program

- Anticipated 15% DBE Goal
- RFQ may require GEC Mentoring Program implementation plan



Opportunity Conflicts

- The Pre-Let GEC on the projects cannot participate with a DB Team on the same projects
- The Post-Let GEC on the projects cannot participate with a DB Team on the same projects

Procurement Schedule

GDOT Issues Public Notice Advertisement	6/16/2017
Industry Forum	7/10/2017
GDOT Issues Request for Qualifications (RFQ)	7/17/2017
Deadline for Submission of Statement of Qualifications (SOQ)	8/16/2017
Industry Forum for Design-Build Procurement	October 2017
GDOT Selects GEC	November 2017
GDOT Issues the Request for Qualifications (RFQ) for the Design-Build Procurement	November 2017

Questions & Answers

Program Information and
Contract Opportunities:
www.dot.ga.gov/PS/Innovative

Questions:
Email: OIDGEC@dot.ga.gov